

What is claimed is:

1. A separator for a fuel cell provided with a first surface facing to an anode electrode at one side and a second surface facing to a cathode electrode at the other side, wherein a material for forming the first surface and a material for forming the second surface are made different from each other.
2. A separator for a fuel cell claimed in Claim 1 configured by bonding a first separator member facing to the anode electrode and a second separator member facing to the cathode electrode, wherein a material for forming the first separator member and a material for forming the second separator member are made different from each other.
3. A separator for a fuel cell claimed in Claim 2, wherein the material for the first separator member is a non-metallic material, while the material for the second separator member is a metallic material.
4. A separator for a fuel cell claimed in Claim 3, wherein the non-metallic material is either one of a carbon material and a ceramics material.
5. A separator for a fuel cell claimed in Claim 2, wherein the material for the first separator member is a chrome alloy, while the material for the second separator member is a nickel alloy.

6. A separator for a fuel cell claimed in Claim 1 configured by bonding a first separator member facing to the anode electrode and a second separator member facing to the cathode electrode, wherein a surface treatment is provided on the surface of the first separator member and on the surface of the second separator member, wherein a material of the surface treatment provided on the first separator member and a material of the surface treatment provided on the second separator member are made different from each other.

7. A separator for a fuel cell claimed in Claim 6, wherein the surface treatment provided on the first separator member is a gold plating and the surface treatment provided on the second separator member is a tin plating.

8. A separator for a fuel cell claimed in Claim 6, wherein the surface treatment provided on the surface facing to the cathode electrode is provided only on the surface of the second separator member that is in contact with the cathode electrode.

9. A separator for a fuel cell claimed in Claim 1 configured by bonding a first separator member facing to the anode electrode and a second separator member facing to the cathode electrode, wherein a surface treatment is provided on one of the surface of the first separator member and the surface of the second separator member, wherein the surface treatment provided on one of the surfaces of the first separator member and the second separator member is made different from a material forming the other one of the first separator member and the second separator member.

10. A separator for a fuel cell claimed in Claim 1 configured by providing a surface treatment at one side of a base, wherein the material for forming the first surface is one of a material for forming the base and a material of the surface treatment, while the material for forming the second surface is the other one of the material for forming the base and the material of the surface treatment.

11. A separator for a fuel cell claimed in Claim 10, wherein the material for forming the first surface is a non-metallic material of the surface treatment, while the material for forming the second surface is a metallic material for forming the base.

12. A separator for a fuel cell claimed in Claim 11, wherein the non-metallic material is a carbon.

13. A separator for a fuel cell claimed in Claim 10, wherein the material for forming the first surface is a chrome alloy for the forming the base, while the material for forming the second surface is a tin plated on the base.

14. A separator for a fuel cell claimed in Claim 10, wherein the tin is plated only on the surface that is in contact with the cathode electrode.

15. A separator for a fuel cell claimed in Claim 10, wherein the material for forming the first surface is a gold plated on the base, while the material for forming the second surface is a nickel alloy for forming the base.

16. A fuel cell provided with a separator configured by bonding a first separator member facing to an anode electrode and a second separator member facing to a cathode electrode, wherein a material for forming the first separator member and a material for forming the second separator member are made different from each other, and a dried fuel gas is supplied between the anode electrode and the first separator member.

17. A fuel cell provided with a separator configured by bonding a first separator member facing to the anode electrode and a second separator member facing to the cathode electrode, wherein a surface treatment is provided on the surface of the first separator member and on the surface of the second separator member, wherein a material of the surface treatment provided on the first separator member and a material of the surface treatment provided on the second separator member are made different from each other, and a dried fuel gas is supplied between the anode electrode and the first separator member.

18. A fuel cell comprising a separator for a fuel cell configured by providing a surface treatment at one side of a base wherein one of the base and the surface treatment faces to an anode electrode while the other one of the base and the surface treatment faces to a cathode electrode, wherein each material of the base and the surface treatment is made different from each other, and a dried fuel gas is supplied between the separator for a fuel cell and the anode electrode.

19. A fuel cell comprising a first separator member facing to an anode electrode arranged at one side of an electrolyte film and a second separator member facing to a cathode electrode arranged at the other side of the electrolyte film, wherein a material for forming the first separator member and a material for forming the second separator member are made different from each other.

20. A fuel cell claimed in Claim 19, wherein a dried fuel gas is supplied between the anode electrode and the first separator member.